

The SureCoat Roof System

Installation Steps with Pictures

1. **Inspect** the entire roof field to identify problem areas that will need to be repaired or treated prior to coating. Replace any substrate that may be damaged.



2. **Cleaning** is a critical step. Without proper cleaning you may encounter adhesion issues in the future. **Roofs that are not cleaned properly will not be eligible for a warranty.** Start by removing debris and sweeping excess dirt off of the roof surface. A vacuum or blower can be used to remove fine dirt and dust. Depending on the type of roof substrate, clean by washing the roof using a power washer and diluted *SureSkrub*TM (biodegradable cleaner that leaves no residue). A water broom can be used in some applications. All smooth surfaces (i.e., single-ply, smooth modified, EPDM, etc.) must be **scrubbed** clean to remove all degraded roofing and residue from the surface. Floor scrubber, power washer and stiff bristle brooms and brushes are recommended. A metal roof can be cleaned with a scotch-brite type scouring pad. Do not use steel wool; it can leave small metal fibers that will rust and leave pinholes in the coating.



3. **Prepare** the roof surface to receive the coating by dressing all penetrations, equipment curbs, skylights, roof hatches and mechanical fasteners. Apply *SureCoat*, then a single ply of *Poly-Mesh* and additional coating; embedding the *Poly-Mesh* in between two layers of the coating. Extend the *Poly-Mesh* out 2" to 4" beyond the penetration and then extend the coating out 6" to 12" beyond the *Poly-Mesh*. Actual distance around penetration depends on the size of penetration. The larger the penetration, the further out it should be. This is so that when the field of the roof is done, the cut in the deck is sealed and reinforced so that it will not tear or separate during movement. Fish mouthing around the penetration is not acceptable and must be touched up to form a tight seal around the penetration. It may be necessary to hand clean the flashing to achieve proper adhesion.



Installation Steps (continued)

4. **Secure flashings/roof edge terminations.** If the roof edge terminations are not secure and the coating is at an exposed edge, the existing roof material may lift. The coating will protect the surface but it will allow water under it. The best way to fix this problem is to install a bigger flashing over the existing flashing and the edge of the reconditioned roof and screw it down. Install a strip of *Poly-Mesh* embedded in two layers of the coating over the joint extending it onto the roof field 4” to 6”. This will form a monolithic seal with the roof field and prevent lifting.



5. **Pre-Coat problem areas first with *SureCoat*.** Depending on condition of surface, apply *Poly-Mesh* embedded between two layers of coating in areas where ponding water has been a problem; cap sheet has fish mouthed; seam separation; or delaminating has occurred. When reconditioning a tar and gravel system, the gravel has to be removed, spud, and cleaned with *SureSkrub* with no residue left behind. In this case, *SureCoat* can be diluted to 20/80 to create an emulsion to “bury” any remaining gravel. The *SureCoat* mixture **must dry completely before proceeding** with system installation. This process can be used to fill deep voids in mineral cap or severe checkering.



6. **Apply first layer of *SureCoat* with a roller and lay out *Poly-Mesh* on wet coating.** Roll the *Poly-Mesh* in a downward and outward motion into the wet coating. There **must** be saturation of the *SureCoat* so that the coating comes through the *Poly-Mesh*. A light application of the *SureCoat* should be over the top of the *Poly-Mesh* at this point. The goal is to form a “sandwich effect” with the *SureCoat* on the bottom and the top touching through the *Poly-Mesh*. All seams should have a minimum overlap of 2” to 4”. In areas of severe ponding, like a V gutter waterway with minimal drainage, cross reinforcing with *Poly-Mesh* should be done, so that the reinforcement using this step is done in two directions. **Allow to dry overnight.**



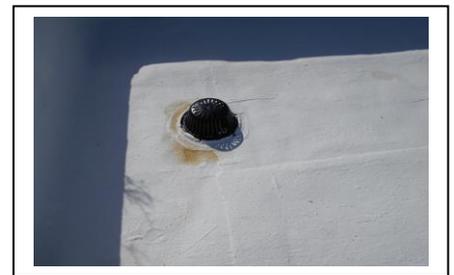
Installation Steps (continued)

7. Apply *SureCoat* to the field of the roof as the top coat by spraying with an airless (see equipment specifications) or stage gallons per 100 square feet, pour into that area and roll with a 1/2" to 3/8" nap roller. There should not be any *Poly-Mesh* or red overlap marks visible through the coating. **Never apply coating when there is expected rain, low temperatures or high humidity within 72 hours.** There must be warm air and heat to cure the resins which will dry the coating in a minimum of 48-72 hours. Thin multiple applications are recommended when weather is cooler. Minimum of 55 degrees and rising - NOT peaking at 55 degrees. Plan on the topcoat taking longer to dry than basecoat (because there is no heat in the roof; it is already a cool roof at this point). If the basecoat is cured with the *Poly-Mesh* embedded and it then rains, the roof should be waterproof. **It will be necessary to clean the roof and allow for it dry again before applying the top coat if the roof is subjected to rain after the base has cured but before the top coat was applied.**



8. **NOTE: Check the roof each morning for the collection of dew or condensation.** If there is moisture accumulated in low spots on the roof, mop up the water and allow the area to dry completely before proceeding. Fans or air movers may be used to accelerate dry time. If a yellow/brown residue is found in the birdbath areas of condensation, dry as detailed above and then clean the areas with *SureSkrub*, rinse and let dry completely before proceeding. Grout sponges are suggested to mop up wet cleaned areas. These areas must be treated with a coating, mesh, coating application. If this residue is not cleaned properly and treated as detailed above, you may encounter adhesion issues with your topcoat in the future.

READ all application guides and specifications before starting your project.



READ Application Guide, Installation Steps, Roof Specifications and Warranty Checklist **BEFORE** starting your project. These guides contain installation details, recommendations and requirements. For copies of these documents, questions or technical support, call **877-823-7873**.